

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Patrick R. Buckley, et al. Docket No. : IL-11255
Serial No. : Art Unit :
Filed : Examiner :
For : SHAPE MEMORY SYSTEM WITH INTEGRATED ACTUATION
USING EMBEDDED PARTICLES

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Alexandria, VA 22313-1450

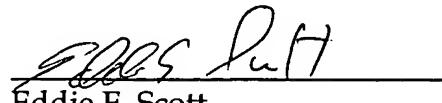
Dear Sir:

Forwarded herewith is an Information Disclosure Statement, Form-1449, in the above-identified application. Copies of the cited references are enclosed: 14 U.S. Patent Documents and 15 Other Disclosures.

The above-mentioned disclosures, which are not admitted as prior art, are identified on the enclosed Form 1449.

Respectfully submitted,

Dated: March 26, 2004



Eddie E. Scott
Attorney for Applicant
Registration No. 25,220

Enclosures: As noted above

Please type a plus sign (+) inside this box +

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	
				Filing Date	
				First Named Inventor	Patrick R. Buckley, et al.
				Group Art Unit	
Examiner Name					
Sheet 1 of 3	Attorney Docket Number IL-11255				

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		2002/0095169	A1	Maitland, et al.	07-18-2002	
		2002/0113066	A1	Stark, et al.	08-22-2002	
		5,330,483		Heaven, et al.	07-19-1994	
		5,429,583		Paulus, et al.	07-04-1995	
		5,674,242		Phan, et al.	10-07-1997	
		5,762,630		Bley, et al.	06-09-1998	
		5,895,398		Wensel, et al.	04-20-1999	
		5,911,737		Lee, et al.	06-15-1999	
		5,957,966		Schroeppe, et al.	09-28-1999	
		5,964,744		Balbierz, et al.	10-12-1999	
		6,059,815		Lee, et al.	05-09-2000	
		6,090,072		Kratoska, et al.	07-18-2000	
		6,102,917		Maitland, et al.	08-15-2000	
		6,599,234	B1	Gray, et al.	07-29-2003	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner Signature	Date Considered	
--------------------	-----------------	--

Examiner: initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

SEND TO: Commissioner for Patents, Washington, DC 20231.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 3

Complete if Known

Application Number	
Filing Date	
First Named Inventor	Patrick R. Buckley, et al.
Group Art Unit	
Examiner Name	
Attorney Docket Number	IL-11255

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ₂
		CETAS, T.C., et al., "A Ferrite Core/Metallic Sheath Thermoseed for Interstitial Thermal Therapies," IEEE Transactions on Biomedical Engineering, Vol. 45, No. 1, January 1998, pp. 68-77	
		OLESON, James R., "A Review of Magnetic Induction Methods for Hyperthermia Treatment of Cancer," IEEE Transactions on Biomedical Engineering, Vol. BME-31, No. 1, January 1984, pp. 91-97	
		SATO, M., et al., "An Experimental Study on a Soft Heating Method for Clinical Application of Interstitial Hyperthermia," IEEE Transactions on Magnetics, Vol. 29, No. 6, November 1993, pp. 3331-3333	
		JOJO, M., et al., "Consideration of Handy Excitation Apparatus for the Inductive Hyperthermia," IEEE Transactions on Magnetics, Vol. 37, No. 4, July 2001, pp. 2944-2946	
		PAULUS, J.A., et al., "Evaluation of Inductively Heated Ferromagnetic Alloy Implants for Therapeutic Interstitial Hyperthermia," IEEE Transactions on Biomedical Engineering, Vol. 43, No. 4, April 1996, pp. 406-413	
		WETZEL, E., et al., "Feasibility of Magnetic Particle Films for Curie Temperature-Controlled Processing of Composite Materials," Army Research Laboratory, ARL-TR-2431, March 2001, 58 pages	
		MCCURRIE, R.A., "Ferromagnetic Materials Structure and Properties," Academic Press, London, 1994, 4 pages	
		JORDAN, J., et al., "Inductive Heating of Ferrimagnetic Particles and Magnetic Fluids: Physical Evaluation of Their Potential for Hyperthermia," Int. J. Hyperthermia, Vol. 9, No. 1, 1993, pp. 51-68	
Examiner Signature		Date Considered	

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, persons are required to respond to a collection of information unless it contains a valid OMB control number.							
Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known			
				Application Number			
				Filing Date			
				First Named Inventor		Patrick R. Buckley, et al.	
				Group Art Unit			
				Examiner Name			
Sheet	3	of	3	Attorney Docket Number		IL-11255	
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS							
MATSUKI, H., et al., "High Quality Soft Heating Method Utilizing Temperature Dependence of Permeability and Core Loss of Low Curie Temperature Ferrite," IEEE Transactions on Magnetics, Vol. MAG-21, No. 5, September 1985, pp. 1927-1929							
STAUFFER, P. R., "Observations on the Use of Ferromagnetic Implants for Inducing Hyperthermia," IEEE Transactions on Biomedical Engineering, Vol. BME-31, No. 1, January 1984, pp. 76-90							
HERGT, R., et al., "Physical Limits of Hyperthermia Using Magnetite Fine Particles, IEEE Transactions on Magnetics, Vol. 34, No. 5, September 1998, pp. 3745-3754							
STAUFFER, P. R., "Practical Induction Heating Coil Designs for Clinical Hyperthermia with Ferromagnetic Implants," IEEE Transactions on Biomedical Engineering, Vol. 41, No. 1, January 1994, pp. 17-28							
IRIE, M., "Shape Memory Polymers" (Chapter 9) from book "Shape Memory Materials," Cambridge University Press, United Kingdom, 1998, 19 pages							
ATKINSON, W. J., et al., "Usable Frequencies in Hyperthermia with Thermal Seeds," IEEE Transactions on Biomedical Engineering, Vol. BME-31, No. 1, January 1984, pp. 70-75							
KIMURA, I., et al., "VLF Induction Heating for Clinical Hyperthermia," IEEE Transactions on Magnetics, Vol. MAG-22, No. 6, November 1986, pp. 1897-1900							

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.
 SEND TO: Commissioner for Patents, Washington, DC 20231